

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8	US-6395674-\$.DID. OR JP-0686868-\$.DID. OR JP-08057648-\$.DID. OR JP-2006007256-\$.DID. OR US-20061001177-\$.DID. OR JP-2004261878-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 09:57
S2	2	JP-08155881-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 09:59
S3	2	JP-20067256-\$.DID. OR WO-2006001177-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 14:10
S4	3	JP-2006007256-\$.DID. OR WO-2006001177-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 14:58
S5	5160	(welding robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:12
S6	1850	(74/490.01,490.02,479.01,469).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/25 15:26
S7	23	S5 and S6	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/25 15:26
S8	2184	S5 and (mount\$2 or floor or ceiling or arm or side face)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:41
S9	1562	S5 and (mount\$2 or floor or ceiling or side face)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:42

S10	50	S5 and (side face)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:42
S11	50	S5 and (side face)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:43
S12	1543	S5 and (mount\$2 or floor or ceiling)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:52
S13	448	S5 and (floor or ceiling)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:52
S14	1494	S5 and (mounted or floor or ceiling)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:53
S15	7	S5 and (floor-mounted or ceiling-mounted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:53
S17	2	S6 and (ceiling-mounted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 15:58
S18	1154	(219/124.34).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/08/25 16:00
S19	209	S18 and (welding robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 16:00
S21	73	S19 and (floor or mounted or ceiling or mounted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 16:01

S22	202	(robot welder)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 16:22
S23	1	S22 and (floor-mounted or ceiling-mounted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 16:23
S24	121	S22 and (floor or mounted or ceiling or mounted)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/25 16:23
S25	1	("20070145027").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/26 10:00
S26	3	2004-055278	JPO; DERWENT	ADJ	ON	2010/01/29 11:12
S27	4	"2004055278"	JPO; DERWENT	ADJ	ON	2010/01/29 11:13
S28	210	(219/137.31).CQLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/29 11:42
S29	4	S28 and (weld\$3 robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/29 11:42
S30	4	S28 and (robot weld\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/29 11:48
S31	1879	(74/490.01,490.02,479.01,469).CQLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/01/29 11:49
S32	26	S31 and (weld\$3 robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/29 11:49

S34	2	S32 and (feed\$2 and rotat\$3 with hollow)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/29 11:51
S35	17	("3543969").PN. OR ("4539465").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/30 14:32
S37	14	S35 and (feed\$2 or electric\$4 and rotat\$3 or holow shaft)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/30 14:39
S38	14	("3293477"   "3344305"   "3693858"   "3898419"   "3924094"   "4205771"   "4539465").PN. OR ("4757180").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/30 14:54
S39	12	S38 and (feed\$2 or electric\$4 and rotat\$3 with holow shaft or pipe or cable)	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/30 14:55
S40	2578	(robot\$2 weld\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/30 14:58
S41	1108	S40 and (torch cable with weld\$3 wire and rotat\$3 with hollow shaft or arm or pivot\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/30 15:02
S42	15	S40 and (torch cable with weld\$3 wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/30 15:03
S43	15	S42 and (rotat\$3 with hollow shaft or arm or pivot\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/30 15:03
S44	2578	(robot\$2 weld\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 12:14
S46	27	S44 and (wire feed\$2 with rotat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 12:14
S47	2	(wire feed\$2 with rotat\$3 hollow shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 12:50

S48	9	(wire feed\$2 with rotat\$3 with hollow shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 12:50
S49	84	(wire feed\$2 with rotat\$3 and hollow shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 13:02
S50	2	(wire feed\$2 with rotat\$3 adj hollow shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 13:02
S51	2	(wire feed\$2 with rotat\$3 near hollow shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 13:03
S52	1818	(wire feed\$2 with rotat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 13:04
S53	228	S52 and (hollow sharp or pipe)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 13:05
S54	40	("2880305"   "3248515"   "3275795"   "3627973"   "3815807"   "4015086"   "4160895"   "4161640"   "4199673"   "4215809"   "4242961"   "4323750"   "4357515"   "4380697"   "4514443"   "4527039"   "4531039"   "4538046"   "4550235"   "4593445"   "4647749"   "4687899").PN. OR ("4952769").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/01/31 14:17
S55	27	S54 and (torch cable with weld\$3 wire and rotat\$3 with hollow shaft or arm or pivot\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 14:18
S56	1	S54 and (wire feed\$2 with rotat\$3 and hollow shaft)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 14:52

S58	13	US-5293107-\$.DID. OR JP-6315879-\$.DID. OR US-5506235-\$.DID. OR JP-7205065-\$.DID. OR US-6250174-\$.DID. OR JP-10175188-\$.DID. OR EP-06712205-\$.DID. OR EP-1669151-\$.DID. OR EP-1568449-\$.DID. OR JP-2006520434-\$.DID.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 16:49
S60	10	S58 and (torch cable with weld\$3 wire and rotat\$3 with hollow shaft or arm or pivot\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/01/31 16:51
S62	49	(US-20050189333-\$. or US-20070012672-\$. or US-20080271561-\$. or US-20060000817-\$. or US-20060138116-\$. or US-20060101936-\$. or US-20080056859-\$. or US-20050199601-\$. or US-20060104791-\$. or US-20080315820-\$.).did. or (US-5630955-\$. or US-7202442-\$. or US-6066833-\$. or US-4538047-\$. or US-5866874-\$. or US-6107601-\$. or US-6166506-\$. or US-7173213-\$. or US-4462748-\$. or US-5770834-\$. or US-5841104-\$. or US-4507042-\$. or US-4515521-\$. or US-4529352-\$. or US-4883939-\$. or US-5212432-\$. or US-5408065-\$. or US-5562843-\$. or US-6023045-\$. or US-6103976-\$. or US-7241969-\$. or US-4540869-\$. or US-6204469-\$. or US-6261701-\$. or US-6403918-\$. or US-6455803-\$.).did. or (US-6476344-\$. or US-6479786-\$. or US-5337938-\$. or US-5528013-\$. or US-5721417-\$. or US-5973291-\$. or US-6078023-\$. or US-6130407-\$. or US-6504131-\$. or US-6555786-\$. or US-6627849-\$. or US-6720529-\$. or US-6849826-\$.).did.	US-PGPUB; USPAT	ADJ	ON	2010/07/06 14:40
S63	39	S62 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or passor through or coupl\$3 or side or side face)	USPAT	ADJ	ON	2010/07/06 14:44
S64	89	(US-20050189333-\$. or US-20070012672-\$. or US-20080271561-\$. or US-20060000817-\$. or US-20060138116-\$. or US-20060101936-\$. or US-20080056859-\$. or US-20050199601-\$. or US-20060104791-\$. or US-20080315820-\$.).did. or (US-5630955-\$. or US-7202442-\$. or US-6066833-\$. or US-4538047-\$. or US-5866874-\$. or US-6107601-\$. or US-6166506-\$. or US-7173213-\$. or US-4462748-\$. or US-5770834-\$. or US-5841104-\$. or US-4507042-\$. or US-4515521-\$. or US-4529352-\$. or US-4883939-\$. or US-5212432-\$. or US-5408065-\$. or US-5562843-\$. or US-6023045-\$. or US-6103976-\$. or US-7241969-\$. or US-4540869-\$. or US-6204469-\$. or US-6261701-\$. or US-6403918-\$. or US-6455803-\$.).did. or (US-6476344-\$. or US-6479786-\$. or US-5337938-\$. or US-5528013-\$. or US-5721417-\$. or US-5973291-\$. or US-6078023-\$. or US-6130407-\$. or US-6504131-\$. or US-6555786-\$. or US-6627849-\$. or US-6720529-\$. or US-6849826-\$.).did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 14:44

S65	74	S64 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or passor through or coupl\$3 or side or side face)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 14:44
S66	79	S64 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or passor through or coupl\$3 or side or side face or torch cable or weld\$3 torch)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 14:49
S67	85	S64 and (industrial robot or robot or weld\$3 torch or weld\$3 robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 14:51
S68	75	S64 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 14:54
S69	74	S67 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 14:54
S70	13	("3543984"   "4101755"   "4166941"   "4249062"   "4283617").PN. OR ("4507042"). URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/07/06 15:15
S71	9	S70 and (industrial robot or robot or weld\$3 torch or weld\$3 robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 15:15
S72	9	S71 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 15:15
S73	31	("1551332"   "1822260"   "2826440"   "3322886"   "3593952"   "4288292"   "4378959"   "4507042"   "4542279"   "4659279"   "4700017"   "4767257"   "4780045").PN. OR ("4969795"). URFN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/07/06 15:22
S74	16	S73 and (industrial robot or robot or weld\$3 torch or weld\$3 robot)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 15:22

S75	16	S74 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 15:23
S76	61	("3330056"   "3543910"   "3630389"   "3840128"   "4012069"   "4024961"   "4076131"   "Re28089").PN. OR ("4378959").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/07/06 15:44
S77	50	S76 and (industrial robot or robot\$2 or weld \$3 torch or weld\$3 robot or manipulator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 15:50
S78	50	S77 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 15:50
S79	11	("3840128"   "4024961"   "4378959").PN. OR ("4546233").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/07/06 16:08
S80	9	S79 and (industrial robot or robot\$2 or weld \$3 torch or weld\$3 robot or manipulator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 16:08
S81	9	S80 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 16:08
S82	18	("2916082"   "3391804"   "3608743"   "4024961"   "4259876"   "4277044"   "4283165"   "4500251"   "4537233"   "4546233"   "4552505"   "4620829"   "4659280").PN. OR ("4768918").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/07/06 16:10
S83	13	S82 and (industrial robot or robot\$2 or weld \$3 torch or weld\$3 robot or manipulator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 16:10
S84	12	S83 and (wire feeder or feeder cable or cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or coupl \$3 or side or side face or torch cable or pivot \$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 16:10
S85	1924	(74/490.01,490.02,479.01,469).CCL.S.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/07/06 16:20

S86	522	S85 and (industrial robot or robot\$2 or weld\$3 torch or weld\$3 robot or manipulator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 16:20
S87	495	S86 and (wire feeder or feeder cable or opposite or rotat\$3 or hollow pipe or hollow shaft or pass\$2 through or side face or torch cable or pivot\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/07/06 16:21
S89	1	"07108485"	JPO	ADJ	ON	2010/07/12 09:09

7/12/2010 12:08:32 PM

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